Student Details	
Div :-	
Roll No :-	
Name :-	
Batch :-	

DSA Probblem Statemetn Topic Wise (Including Leetcode Statement)

Date:- 03/11/25

Topic	Pbm No	Programming Statement	Leetcode Pbm No	Solved /Unsolved
Recursive Function	1	1. Factorial of given no		☐
	2	2. Find out fibonacci series	509	☐
	3	3. Check given no it is power of two or not	231	☐
	4	4. Check given no it is power of four or not	342	☐
	5	5. Find out trailing zeroes in factorial	172	☐
	6	6. Find Kth character in string game -I	3304	☐
Array	7	1. Initalize and display the array elements		☐
	8	2. Search an element by using linear search		☐
	9	3. Sorting using bubble sort		☐
	10	4. Sorting using Insertion sort		☐
	11	5. Sorting using Selection sort		☐
	12	6. Find the largest/smallest ele from given array	215	☐
	13	7. Check given array is sorted or not		☐
	14	8. Remove the duplicate ele from sorted array	26	☐
	15	9. Find out second largest and smallest element from the array	215	☐
	16	10. Sorting array elements using Merge Sort		☐
	17	11. Shifting array element to left by 1 position		☐
	18	12. Search element using binary search		☐
	19	13. Find out the majority element from the array The majority elen	169	☐
	20	14. **Move zero's** Given an integer array nums, move all 0's to the end of it while maintaining the relative order of the non-zero elements.	283	☐
	21	15. Find the missing number in array	268	☐
	22	16. Count Maximum Consecutive One's in the array	485	☐
	23	17. Two Sum : Check if a pair with given sum exists in Array	1	☐
	24	Plus One Problem	66	☐
	25	Merge Sorted Array	88	☐
	26	Intersection of two array	349	☐
	27	Relative Rank	506	☐
2 D Array	28	1. Row with maximum ones	2643	☐
	29	2. Find the row index that hax max sum of element		☐
	30	3. Return the column index that has max sum of ele		☐
	31	4. Return the column index that has maximum even no		☐
	32	5. Searching element in the 2D matrix		☐
	33	6.Search an element in 2D matrix with O(log(n*m)) complexity	74	☐
	34	7. Search in 2D matrix II	240	☐
	35	Island Perimeter	463	☐
String	36	1. Display the string value char by char		☐
	37	2. Display the string in reverse order char wise		☐
	38	3. Display the string in reverse order word wise		☐
	39	4. Find out the how many times char are occurred of the given string		☐

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String	40	5. Find out the which char occurred maximum in given string		
	41	6. Find out the no of vowels and consonant from the given string		
	42	7. Check the given string is palindrome or not		
Stack & Queue	43	1. Implement the stack using array		
	44	2. Implement the queue using array		
	45	3. Valid Parentheses	20	
	46	4. Baseball Game	682	
	47	5. Next Greater Element II	503	
Linked List	48	Create a Single linked list and perform the following operation 1.Insert a node at first 2. Insert a node at last 3. Insert a node anywhere 4. Delete a first node 5. Delete last node 6. Delete any node 7. Display 8. Search		
	49	2. Check given SLL is palindrome or not (using Stack)	234	
	50	3. Find out the middle node of the linked list (two pointer technique)	876	
	51	4. Reverse Linked List (three pointer technique)	206	
	52	5. Find out the intersection of linked list	160	
	53	6. Convert binary number in a linked to integer	1290	
Tree	54	1. Binary Tree Implementation		
	55	2. Tree Traversing Preorder	144	
	56	3. Tree Traversing Inorder	94	
	57	4. Tree Traverrsing Postorder	145	
	58	5. Tree is Symmetric or not	101	
	59	6.Maximum depth of binary tree	104	
	60	7. Path sum	112	
	61	8. Sum of left leaves	404	
	62	9. Diameter of binary tree	543	
	63	10. Minimum number game	2974	
	64	11. Creation and Insert BST		
	65	12. Validate binary search tree	98	
	66	13. Find out min and max ele from BST		
	67	14. Find out inorder predecessor and successor in BST		
	68	15. Search element in BST	704	
	69	16. Convert sorted array to binary search tree	108	
	70	17. Increasing order search tree (Inorder traversing)	897	
Grpah	71	1. Create a Graph (insert a vertex and conenct a network)		
	72	2. Traversing in Graph using BFS (queue)		
	73	3. Traversing in Graph using DFS (stack)		
	74	4. Maximum depth of binary tree (DFS)	104	
	75	5. Flood Fill Level Wise (BFS)	733	
	76	6. Find the center of star grpah	1791	
	77	7. Find if path exists in grpah	1971	
	78	8. Find the minimum spanning tree using (using prims algo)		

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	79	9. Find the MST using Krushkal algorithm		☐
	80	10. Find the shortest distance path using Dijkstra Algorithms		☐
Dynamic Program	81	1. Fibonacci Series using DP (Memoization)		☐
	82	2. Fibonacci Series using DP (Tablulation)		☐
	83	3. Solve the 0/1 knapsack problem using recursive		☐
	84	3. Solve the 0/1 knapsack problem using memoization		☐
	85	4. Solve the 0/1 knapsack problem using tabulation		☐
	86	5. Find out the LCS using recursive	1143	☐
	87	6. Find out the LCS using momoization	1143	☐
	88	7. Find out the LCS using tablulation	1143	☐
	89	8. Find out the LIS using recursive	300	☐
	90	9. find out the LIS using momization	300	☐
	91	10. Find out the LIS using tabluation	300	☐
		Total Leetcode Pbm Statement	52	

Student Name & Sign

Subject Teacher and Sign